

N O T I C E

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SPACEWARN BULLETIN

SPX-382

August 31, 1985

luwds World Warning Agency for Satellites
World Data Center A for Rockets and Satellites
Code 630.2
Goddard Space Flight Center
Greenbelt, Maryland, U.S.A.

SPACEWARN Activities ✓

A. List of Recent International Designations. (Launches reported for the first time are indicated in *italics*. Catalog numbers are in parentheses.)

1985-078A (15999) <i>Cosmos 1679</i>	Aug. 29	067A (15940) <i>Cosmos 1672</i>	Aug. 7
077A (15977) <i>Cosmos 1678</i>	Aug. 29	066B (15938) <i>Oscar 30</i>	Aug. 3
076D (15995) <i>Syncom IV-4</i>	Aug. 29	066A (15935) <i>Oscar 24</i>	Aug. 3
076C (15994) <i>ASC-1</i>	Aug. 27	065A (15931) <i>Cosmos 1671</i>	Aug. 2
076B (15993) <i>Aussat 1</i>	Aug. 27	064A (15930) <i>Cosmos 1670</i>	Aug. 1
076A (15992) <i>STS-51I</i>	Aug. 27	063B (15929) <i>Plasma Diagnostics</i>	
075A (15986) <i>Cosmos 1677</i>	Aug. 23	Package	July 29
074A (15977) <i>Molniya 1-84</i>	Aug. 22	063A (15925) <i>STS-51F</i>	July 29
073A (15967) <i>Planet A</i>	Aug. 18	062A (15918) <i>Cosmos 1669</i>	July 19
072A (15959) <i>Cosmos 1676</i>	Aug. 16	061A (15909) <i>Molniya 3-25</i>	July 17
071A (15952) <i>Cosmos 1675</i>	Aug. 12	060A (15906) <i>Cosmos 1668</i>	July 15
070A (15948) <i>Raduga 18</i>	Aug. 8	059A (15891) <i>Cosmos 1667</i>	July 10
069A (15944) <i>Cosmos 1674</i>	Aug. 8	058A (15889) <i>Cosmos 1666</i>	July 8
068A (15942) <i>Cosmos 1673</i>	Aug. 8	057A (15877) <i>Cosmos 1665</i>	July 3

B. Text of Launching Announcements. (Received between July 31, 1985, and August 31, 1985.)

1985-078A (Category III) Recent reports indicate the launch of *Cosmos 1679* on August 29, 1985, by the U.S.S.R. Confirmation has not yet been received from the launching agency.

1985-077A (Category III) Recent reports indicate the launch of *Cosmos 1678* on August 29, 1985, by the U.S.S.R. Confirmation has not yet been received from the launching agency.

1985-076D (Category II) *Syncom IV-4* was launched from the orbiting *STS-51I* on August 29, 1985, for the Leasat Network. Orbit elements are period 636.3 min, inclination 27.2°, apogee 35861 km, perigee 393 km.

1985-076C (Category II) *ASC 1* was launched from the orbiting *STS-51I* on August 27, 1985, for the American Satellite Company (ASC). Orbit elements are period 639.6 min, inclination 27.1°, apogee 36058 km, perigee 366 km.

1985-076B (Category II) *Aussat 1* was launched from the orbiting *STS-51I* on August 27, 1985, for Australia. Orbit elements are period 651.7 min, inclination 24.3°, apogee 36287 km, perigee 755 km.

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1985-076A
(Category II) STS-51I (Space Transportation System-51I) was launched on August 27, 1985, from the Kennedy Space Center. Orbit elements are period 92.0 min, inclination 28.5°, apogee 385 km, perigee 355 km. On board are J. H. Engle, R. O. Covey, J. D. van Hoften, W. F. Fisher and J. M. Lounge. The payload included Aussat 1, ASC 1 and Syncom IV-4. The Space Shuttle Discovery mission also included the repair of a dormant fuel-laden Leasat satellite.

1985-075A
(Category III) Recent reports indicate the launch of Cosmos 1677 on August 23, 1985, by the U.S.S.R. Confirmation has not yet been received from the launching agency.

1985-074A
(Category III) Recent reports indicate the launch of Molniya 1-64 on August 22, 1985, by the U.S.S.R. Confirmation has not yet been received from the launching agency.

1985-073A
(Category II) Planet A was launched by the Institute of Space and Astronautical Science (ISAS) on August 18, 1985, from the Kagoshima Space Center, Japan. The spacecraft is cylindrical with a 1.4 meter diameter and 0.7 meter height and weighs 139.7 kg. On board is an ultraviolet imaging camera to observe the hydrogen corona around the coma of the comet Halley and an energy analyzer of ions and electrons to measure solar wind and probably cometary charged particles. The spacecraft transmits on 2293.89 MHz with 0.07/5 Watts with coherent/non-coherent modes for ranging/telemetry. The orbit parameters are epoch 04h 10m 32s August 22, 1985 (UTC), inclination 0.888°, perihelion 100.480 million km, aphelion 151.467 million km, period 282.2 days. The closest encounter to the comet Halley is 1256 (GMT), March 8, 1986, distance 211 thousand km. The spacecraft is renamed "Suisai" (the Japanese word for comet). Mid-course correction will be carried out later if necessary.

1985-072A
(Category III) Recent reports indicate the launch of Cosmos 1676 on August 16, 1985, by the U.S.S.R. Confirmation has not yet been received from the launching agency.

1985-071A
(Category III) Recent reports indicate the launch of Cosmos 1675 on August 12, 1985, by the U.S.S.R. Confirmation has not yet been received from the launching agency.

1985-070A
(Category III) Recent reports indicate the launch of Raduga 16 on August 8, 1985, by the U.S.S.R. Confirmation has not yet been received from the launching agency.

1985-069A
(Category III) Recent reports indicate the launch of Cosmos 1674 on August 8, 1985, by the U.S.S.R. Confirmation has not yet been received from the launching agency.

1985-068A
(Category III) Recent reports indicate the launch of Cosmos 1673 on August 8, 1985, by the U.S.S.R. Confirmation has not yet been received from the launching agency.

1985-067A
(Category III) Recent reports indicate the launch of Cosmos 1672 on August 7, 1985, by the U.S.S.R. Confirmation has not yet been received from the launching agency.

1985-066B
(Category III) Oscar 30 was launched on August 3, 1985, by the U.S. Orbit elements were inclination 89.8°, period 107.9 min, apogee 1259 km, perigee 1001 km.

1985-066A
(Category III) Oscar 24 was launched on August 3, 1985, by the U.S. Orbit elements were inclination 89.8°, period 107.9 min, apogee 1259 km, perigee 1002 km.

1985-065A
(Category III) Recent reports indicate the launch of Cosmos 1671 on August 2, 1985, by the U.S.S.R. Confirmation has not yet been received from the launching agency.

1985-064A
(Category III) Recent reports indicate the launch of Cosmos 1670 on August 1, 1985, by the U.S.S.R. Confirmation has not yet been received from the launching agency.

C. Spacecraft Particularly Suited for International Participation (Category I).

1. Spacecraft with essentially continuous radio beacons on frequencies less than 150 MHz, or higher frequencies if especially suited for ionospheric or geodetic studies. ("NNSS" denotes U.S. Navy Navigational Satellite System; *italics* indicate updated information since the last issue.)

<u>Designation</u>	<u>National Name</u>	<u>Frequency (MHz)</u>	<u>Reference in COSPAR Info Bulletins</u>
1968-100A	ATS 1	<i>Aug. 15, 1985, 1305 UT; 136.460000 and 137.350000. 133.120°W. Inclination 11.872°.</i>	No. 37, p. 35
1967-034A	NNSS 30120	150 at 0.75 W; also 400 at 1.25 W. Inclination 90.214°.	
1967-048A	NNSS 30130	150 at 0.75 W; also 400 at 1.25 W. Inclination 89.627°.	
1967-092A	NNSS 30140	150 at 0.75 W; also 400 at 1.25 W. Inclination 89.245°.	
1968-012A	NNSS 30180	150 at 0.75 W; also 400 at 1.25 W. Inclination 89.989°.	

<u>Designation</u>	<u>National Name</u>	<u>Frequency (MHz)</u>	<u>Reference in COESPAR Info Bulletins</u>
1970-067A	NNSS 30190	150 at 0.75 W; also 400 at 1.25W. Inclination 90.023°.	
1973-081A	NNSS 30200	150 at 0.75 W; also 400 at 1.25 W. Inclination 90.1°.	
1975-100A	GOES 1	Aug. 15, 1985, 1413 UT; 136.380000. 102.060°W. Inclination 5.443°.	No. 75, p. 46
1977-048A	GOES 2	Aug. 12, 1985, 0357 UT; 136.380000. 112.200°W. Inclination 3.618°.	No. 80, p. 54
1977-080A	SIRIO	Feb. 28, 1985, 1323 UT; 136.137600 and 136.138100. 66.439°E.	
1978-012A	IUE	Aug. 9, 1985, 0000 UT; 136.860000. Inclination 29.711°.	
1978-062A	GOES 3	Aug. 1, 1985, 0400 UT; 136.380000 and 137.190000. 134.510°W. Inclination 2.444°.	
1979-057A	NOAA 6	Aug. 12, 1985, 2156 UT; 136.770000. Inclination 98.522°.	
1981-059A	NOAA 7	Aug. 7, 1985, 0140 UT; 136.770000 and 137.770000. Inclination 99.097°.	
1983-022A	NOAA 8	July 25, 1985, 0234 UT; 136.770000 and 137.770000. Inclination 98.662°.	
1984-123A	NOAA 9	Aug. 3, 1985, 1030 UT; 136.770000 and 137.770000. Inclination 98.951°.	

2. § Satellites that provide telemetered information on a continuing basis.
Information not currently available.

3. § Optical objects used for geophysical studies.

4. § Satellites useful for simultaneous observation programs with small cameras.

§ This section will appear quarterly and when updated information is available.

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5. Long-lived satellite objects that are nearing their decay into the atmosphere. Orbital observations of these objects (total lifetime more than 90 days) during the decaying phase are useful for atmospheric studies. Objects with an expected lifetime of less than 90 days are included for completeness. The predicted dates of decays are given.

<u>Expected Decay</u> <u>Dates 1985</u>		<u>Expected Decay</u> <u>Dates 1985</u>	
1960-XI 1	Oct. 20	1985-036G	Sept. 30
1960-XI 2	Sept.	1985-049B	Sept. 3
1975-079A	Sept.	1985-049C	Sept. 18
1980-089BV	Sept. 23	1985-060D	Sept. 7
1980-089Q	Sept. 11	1985-065C	Sept. 6
1982-033ES	Oct. 9	1985-065D	Sept. 17
1982-033EV	Oct. 19	1985-065E	Sept. 5
1983-051C	Sept. 6	1985-067E	Sept. 16
1983-091A	Oct. 14	1985-071B	Oct. 11
1984-025D	Oct. 10	1985-071C	Sept. 15
1985-012C	Sept. 19	1985-071E	Sept. 25
1985-027K	Oct. 13	1985-057C	Oct. 3

6. Actual decay dates (Category I). Those objects previously reported in Section C.5 are indicated by #.

<u>1985</u>		<u>1985</u>	
#1980-089AJ	Aug. 17	1985-060K	Aug. 2
1982-033ET	Aug. 24	1985-061B	Aug. 22
1982-033EU	Aug. 12	1985-061C	Aug. 23
1982-082C	Aug. 23	1985-062A (Cosmos 1669)	Aug. 30
#1982-111A (OPS 9627)	Aug. 13	1985-063A (STS-51F)	Aug. 6
#1983-020C	Aug. 5	1985-063B	Aug. 6
#1983-102A (Cosmos 1502)	Aug. 29	1985-065A (Cosmos 1671)	Aug. 16
#1984-073C	Aug. 28	1985-065B	Aug. 10
#1985-012F	July 28	1985-065F	Aug. 21
#1985-027M	Aug. 7	1985-065G	Aug. 25
#1985-036E	Aug. 10	1985-067A (Cosmos 1672)	Aug. 21
1985-039A (Cosmos 1654)	Aug. 7	1985-067B	Aug. 11
1985-039C	Aug. 14	1985-067C	Aug. 28
#1985-039E	Aug. 18	1985-067G	Aug. 22
#1985-044G	Aug. 18	1985-067H	Aug. 24
#1985-045B	Aug. 24	1985-068B	Aug. 14
1985-057D	Aug. 4	1985-068C	Aug. 10
1985-060E	Aug. 4	1985-070B	Aug. 11
1985-060F	Aug. 2	1985-070C	Aug. 9
1985-060G	Aug. 1	1985-072B	Aug. 22
1985-060H	Aug. 9	1985-087E	Aug. 18
1985-060J	July 31		